

I-405/SR 167 Corridor Executive Advisory Group

Meeting #3 Renton Community Center Dec. 6, 2016

Introductions

Roger Millar, P.E., AICP Secretary of Transportation

Agenda

- Introductions
- I-405 Partner Program Updates
 - WSDOT
 - Sound Transit
 - King County Parks
- Public Comment
- Wrap-up and next steps

I-405 Master Plan

Regional Consensus

EIS Record of Decision, 2002

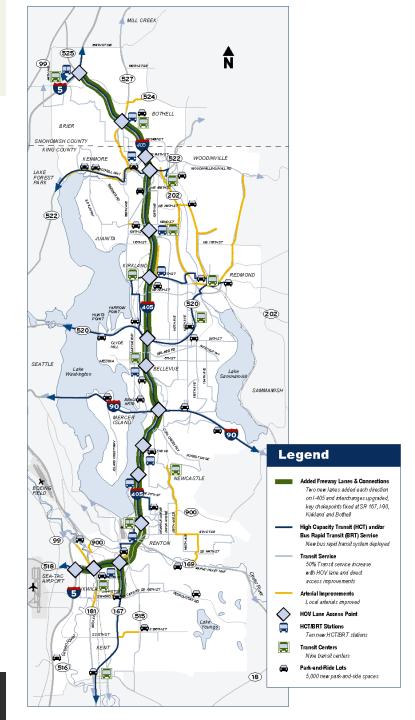
Roadways

- 2 new lanes in each direction
- Local arterial improvements

Transit & Transportation Choices

- Bus Rapid Transit system
- New transit centers
- 50% transit service increase
- HOV direct access ramps and flyer stops
- Potential managed lanes system
- 5000 new Park & Ride spaces
- 1700 new vanpools

Environmental Enhancements



I-405 Master Plan: Multimodal and making progress

Park and Ride expansions 80% complete or funded



Transit center expansions 70% complete



Bus Rapid Transit stations 70% complete



Local arterial improvements 50% complete



Add 2 lanes in each direction 45% complete or funded



Transit service increase 40% complete



Direct Access 12% complete



Vanpool service increase 30% complete



Pedestrian/bicycle improvements 25% complete



WSDOT I-405/SR 167 Update

Jennifer Charlebois, P.E.
Director of Toll Systems & Engineering
WSDOT Toll Division

Kim Henry, P.E. I-405/SR 167 Corridor Program Director

I-405 express toll lanes Quick facts

- Opened Sept. 27, 2015
- 17 miles of express toll lanes
- Operation hours: 5 a.m. to 7 p.m. Mon Fri
- Toll Rates

Minimum Toll Rate \$ 0.75

– Maximum Toll Rate \$ 10.00

- Carpool Policy
 - 3+ carpools with Flex Pass exempt at all times
 - 2+ carpools exempt except 5-9 a.m. and
 3-7 p.m. on weekdays



Goal #1: Offer drivers a choice

What we anticipated

- Ramp-up: Total trips projected at 12.1 million in the first year.
 - National experience shows it takes up to a year for drivers to adjust.
- Choice: Drivers may not use the express toll lanes everyday, but they offer drivers a choice when they need it most.

• **Toll rates:** Typical rates would range between 75 cents and \$4.

What we're seeing

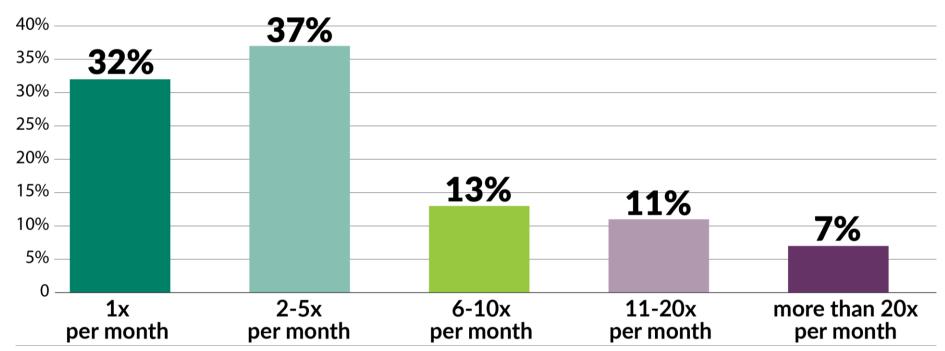
- Ramp-up: Drivers made a total of 14.5 million trips in the first year.
 - Drivers adjusted much faster than anticipated.
- Choice:
 - 70 percent of express toll lane commuters use the lanes between 1 and 5 times a month.
 - Drivers value this choice. Even after one year, 50,000 new vehicles used the express toll lanes for the first time September 2016.
- Toll rates: Average peak period, peak direction toll rate is \$2.50.

What we're seeing:

Drivers use the lanes when they need them

Average monthly express toll lane travel frequency for Good To Go! pass users

(Oct. 2015 - Sept. 2016)

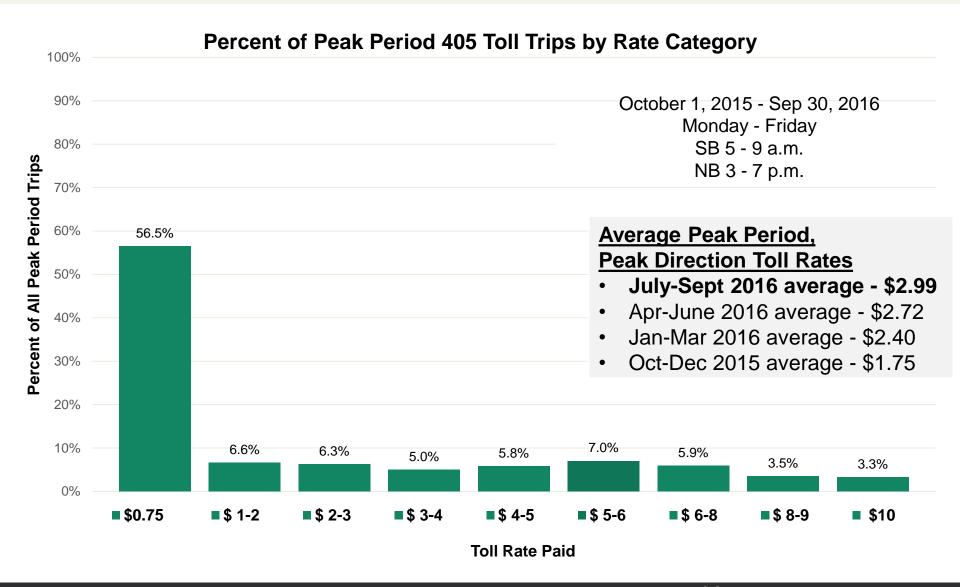


Source: Unique Good To Go! passes on I- 405

Weekdays from 5 a.m. to 7 p.m.

What we're seeing:

What drivers are choosing to pay



Goal #2: Provide a faster and more predictable trip

What we anticipated

What we're seeing

- Faster Trip: Express toll lanes will provide a faster trip.
- Faster Trip:
 - For a full corridor trip during the peak period, the express toll lanes are saving drivers time over the general purpose lanes
 - Average ETL saves 13 minutes
 - Speeds in the general purpose lanes have improved in most areas.

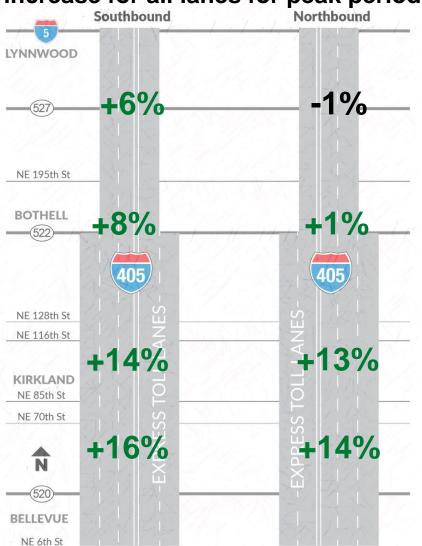
- Move More Vehicles and People: By moving traffic more efficiently, we'll also move people.
- More Predictable: The previous HOV lane moved traffic at 45 mph on average 60 percent of the time.

- Move More Vehicles and People:
 - At NE 100th St, I-405 is moving 16 percent more people in the peak direction during the peak period based on sample data from August 2016.
- More Predictable: Express toll lanes keep traffic moving at 45 mph on average 85 percent of the time.

What we're seeing: I-405 is moving more vehicles at peak periods

Combined volume increase for all lanes for peak period, peak direction trips

WSDOT added 7.5
lane miles of new
capacity
southbound
for a
12% increase
in all lane miles.

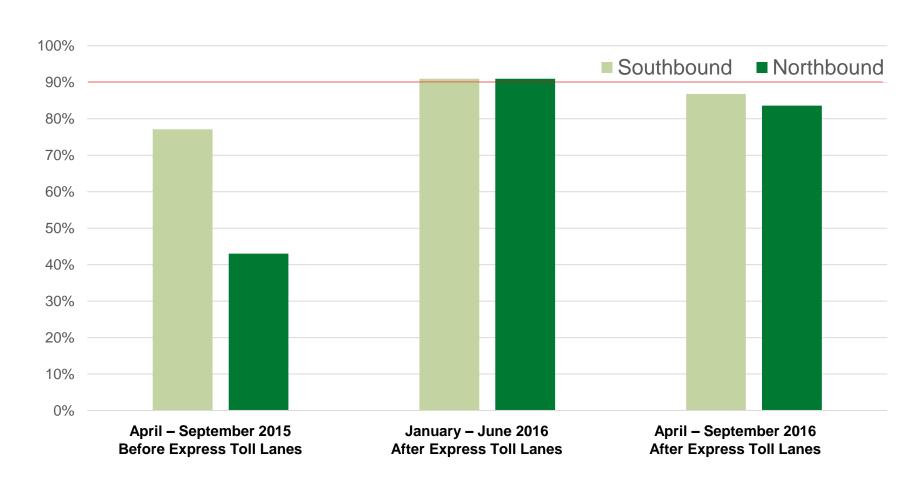


WSDOT added 3.5 lane miles of new capacity northbound for a 5% increase in all lane miles.

What we're seeing: Speeds and predictability have improved with express toll lanes

I-405 Performance – Full Corridor

Percentage of Peak Periods and Peak Direction When Speeds are Greater Than 45 Miles Per Hour

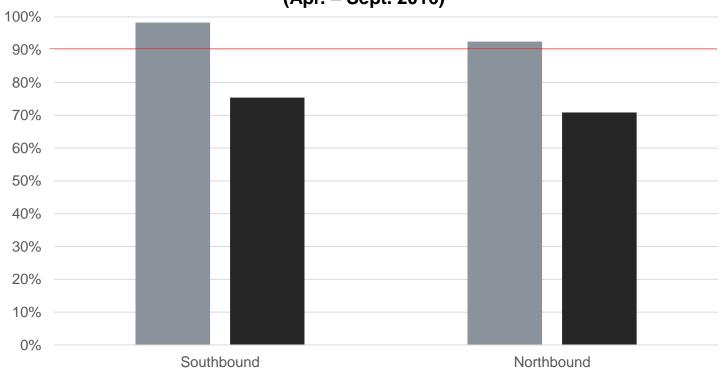


What we're seeing:

Many factors impact the 45 mph metric

I-405 Performance Single-Lane Section / Dual-Lane Section

Percentage of Peak Periods and Peak Direction When Speeds are Greater Than 45 Miles Per Hour (Apr. – Sept. 2016)



- Dual Lane Section (Bellevue to Bothell)
- Single Lane Section (Bothell to Lynnwood)

Goal #3: Fund future corridor improvements

What we anticipated

Fund future projects: Generate enough revenue to cover operating expenses and fund other future I-405 improvements. The Connecting Washington transportation package identified \$215 million in toll revenue for funding I-405 Widening and Express Toll Lanes between Bellevue and Renton.

What we're seeing

 Fund future projects: Higher utilization during first year of operation provided sufficient revenue to fund the Peak-Use Shoulder Lane project. Toll revenue from entire corridor anticipated to support Connecting Washington funding for I-405 Widening and Express Toll Lanes between Bellevue and Renton.

Peak-Use Shoulder Lane Northbound I-405 from SR 527 to I-5

Scope

- Convert right shoulder to general purpose peak-use shoulder lane on northbound I-405 between SR 527 and I-5
- Build new noise wall for area residents
- Complete improvements to express toll lane signage and access

What is a peak-use shoulder lane?

- Traffic management strategy that uses a shoulder as a general purpose lane to provide additional capacity when needed (peak periods)
- Shoulder is preserved when traffic volumes are lower
- Dynamically controlled using overhead electronic signs



Timeline

- November 2016: Design-build contractor selected
 - Graham Contracting Ltd.
 - Funded with I-405 express toll lane revenue
- Winter 2017: Construction start
- Spring 2017: Open to traffic



Legislative Direction

The **2016 Supplemental Transportation Budget** directed WSDOT to study the north end of I-405, specifically:

"the identification and prioritization of projects that will help reduce congestion and provide added capacity on the Interstate 405 tolling corridor between state route number 522 and Interstate 5."



I-405 Master Plan Elements Under Evaluation



Master Plan elements currently being considered for next steps include:

Direct Access Ramps at:

- SR 527
- NE 195th Street
- SR 522
- NE 160th Street

Direct Connector Ramps (HOV to ETL) at:

I-5/I-405 interchange

Lanes

Two express toll lanes in each direction

Transit

I-405 Bus Rapid Transit (inside operations)

I-405 North End Projects Charrette

Two-day workshop

Nov. 16 and 29, 2016

Interagency participation:

- Cities of Bothell and Woodinville
- Community Transit
- Federal Highway Administration
- King County Metro
- Snohomish County
- Sound Transit
- WSDOT



Objectives:

- Review WSDOT I-405 north end phasing concepts, brainstorm alternative solutions
- Gather input on challenges and considerations for improvements
- Develop recommendation for next priority improvements from Master Plan

I-405 North End: Proposed Next Steps

- Evaluate charrette outcomes and continue coordination with partner transit agencies
- Report to Joint Transportation Committee Dec. 15 on options under consideration for SR 522 to I-5 area
- Recommend budget strategy to continue preliminary engineering work

Immediate Next Steps: I-405 and SR 167

I-405 Northbound Peak-Use Shoulder Lane, SR 527 to I-5

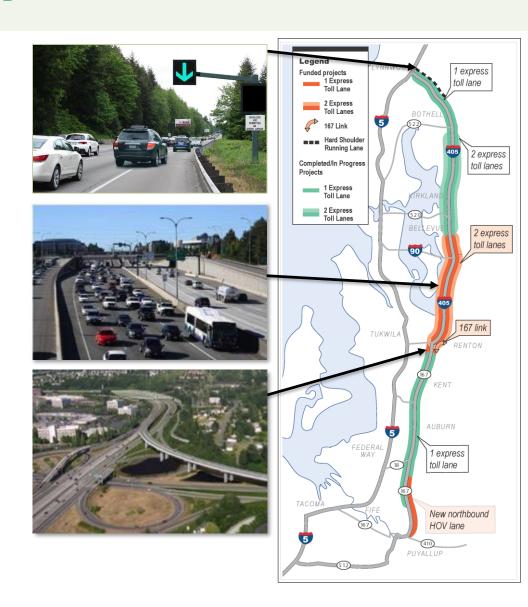
- Construction start in winter 2017
- Open to traffic by spring 2017

Renton to Bellevue Widening and Express Toll Lanes

- Construction start in 2019
- Open in 2024

I-405/SR 167 Direct Connector

- Contract award in 2016
- Open in 2019



I-405/SR 167 Interchange Direct Connector

Project Description:

Builds a new flyover ramp connecting the SR 167 HOT lanes to the I-405 HOV lanes. Also relocates a noise wall and constructs portions of local streets in the Talbot Hill neighborhood.

- Groundbreaking in September 2016
- Guy F. Atkinson Construction of Renton starting construction in winter 2017
- Sanitary sewer relocation at South 14th Street (Talbot Hill) under way
- Olympic Pipeline relocation under way





SR 167 Southbound HOT Lane Extension

- Tolling scheduled to start December 17
- Project delivery ahead of schedule and on budget
- Added new highway capacity to extend the southbound SR 167 HOT lane six miles from South 277th Street to 8th Street East
 - Provides commuters with an option for a faster more reliable trip
- Built two new noise walls
- Replaced culvert with fish-passable structure
- Installed new signals and improved pedestrian connections on local city streets



Renton to Bellevue: Project Overview

- Adds new highway capacity to create a dual express toll lane system between State Route 167 in Renton and Northeast 6th Street in Bellevue. This project will complete a continuous 40-mile express toll lane system from I-405 in Lynnwood to SR 167 at the Pierce County line.
- Improves four interchanges: Northeast Park Drive and Northeast 44th Street in Renton, and 112th Avenue Southeast and Coal Creek Parkway in Bellevue.
- Builds a new southbound general purpose lane from I-90 to 112th Avenue Southeast in Bellevue.
- Builds portions of the Eastside Rail Corridor regional trail, including a new crossing over I-405 at the site of the former Wilburton rail bridge.*
- Builds new direct access ramp at Northeast 44th
 Street in Renton.**

Estimated Schedule

Construction start: 2019

Open to traffic: 2024

Lake Washington Bellevue Renton (167)

^{*}Partnership with King County

^{**}Partnership with Sound Transit

Direct Access Ramp at NE 44th Street

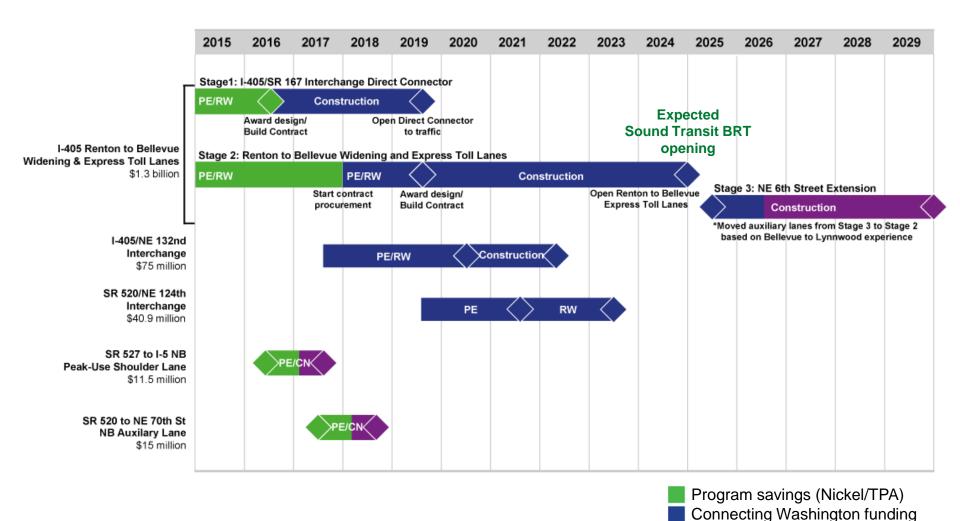
Sound Transit 3 package proposes for NE 44th Street interchange:

- Direct access ramps to express toll lanes
- Parking for transit users

Estimated 30% of existing ramp traffic would move to direct access ramps during peak periods.



I-405 Delivery Schedule: Current Funding



Funded by toll revenue

(anticipated by Connecting WA)

Discussion: WSDOT Update

Facilitated by:
Roger Millar, P.E., AICP
Secretary of Transportation







ST3 Plan Eastside Projects

- Overlake to Downtown Redmond LRT
- South Kirkland to Bellevue to Issaquah LRT
- I-405 BRT
- SR 522 BRT
- Bothell-Bellevue HCT Study
 - North Sammamish park & ride





Eastside Cities Served

Bus Rapid Transit I-405 & SR 522

- Bellevue (1 station)
- Bothell (6 stations)
- · Kenmore (2 stations)
- Kirkland (2 stations)
- · Renton (2 stations)

13 stations

Light Rail

- Bellevue (8 stations)
- Issaguah (1 station)
- Kirkland (1 station)
- Mercer Island (1 station)
- Redmond (4 stations)

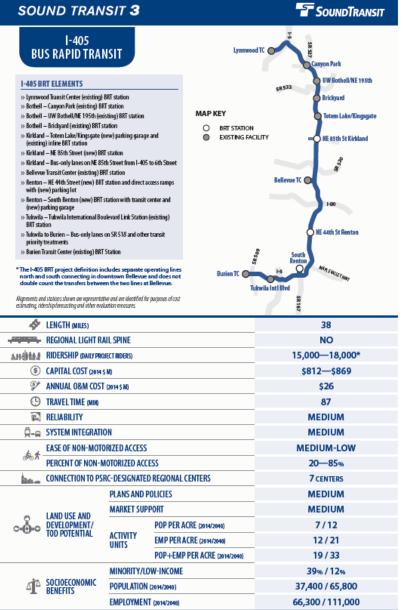
15 stations

Express Bus/Parking

- Sammamish
- Woodinville

*includes ST2 & ST3 projects





Date Last Modified: 06-30-2016

I-405 BRT

Highlights

- Implementation by 2024
- 10 minute frequency in peak hours, 15 minute off-peak
- ST Express Route 532 from Everett to Bellevue will continue
- New stations at:

NE 85th Street in Kirkland

NE 44th Street in north Renton

Grady Way/Rainier in South Renton

 Connections at existing transit facilities and with SR 522 BRT at NE 195th



I-405 North BRT

Lynnwood to Bellevue

- In Express Toll Lanes and bus-only shoulder lanes for majority of trip
- In general purpose lanes from Lynnwood to Canyon Park
- Provides connection to SR 522 BRT at 195th/UW Bothell
- Serves Totem Lake
- Serves Central Kirkland

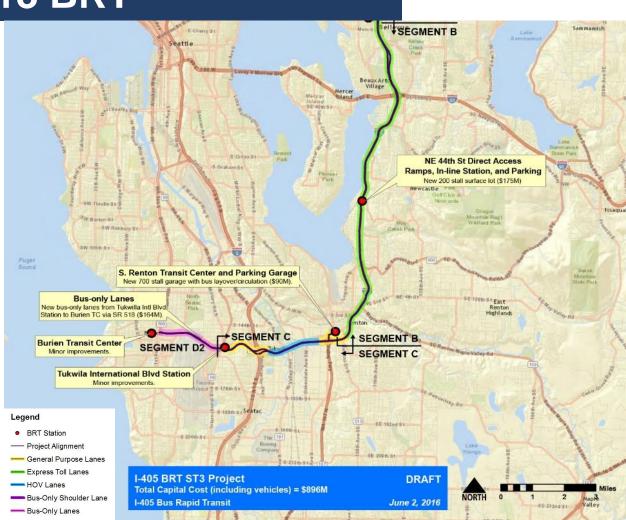




I-405 South/SR 518 BRT

Bellevue to Renton, Tukwila Int'l Blvd station & Burien Transit Center

- In Express Toll Lanes from Bellevue to S Renton
- In HOV lanes from S Renton to SR 518
- In GP lanes to Tukwila Int'l Blvd station (TIBS)
- In bus-only lanes from TIBS to Burien Transit Center



Discussion: Sound Transit

Facilitated by:
Roger Millar, P.E., AICP
Secretary of Transportation

Eastside Rail Corridor Regional Trail I-405 Executive Advisory Committee December 6, 2016





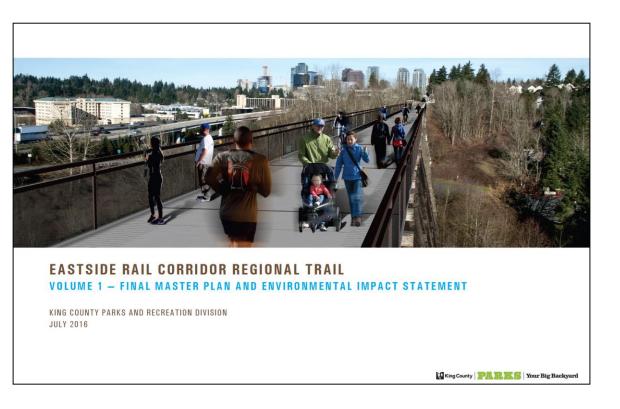




Briefing Overview

- Trail Master Plan Update
- Corridor Overview and Preferred Alternative
- Implementation Priorities
 - Rail Removal and Interim Trail Kirkland to Renton
 - Wilburton Segment Design (includes Wilburton Trestle)
 - Wilburton Gap: I-405 Bike/Ped Bridge
 - WSDOT Plans for Trail in ERC south of I-90
- Next Steps

Trail Master Plan Update

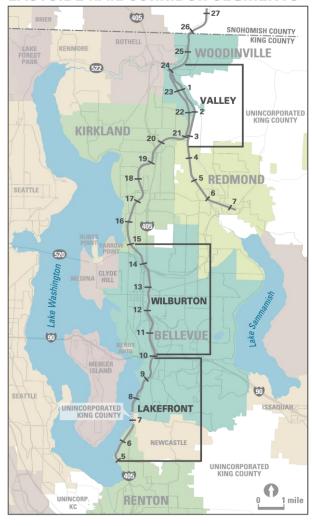


- Final Master Plan and Environmental Impact Statement (EIS) Published July 2016
- At King County Council for approval via motion
- Upon approval of Master Plan, DNRP will issue Notice of Action, commences 30 day appeal period under SEPA
- Final Master Plan and EIS online at: www.kingcounty.gov/erc

Corridor Segments and Preferred Alternative

- Valley Totem Lake to Woodinville, with Spur to Redmond
 - Connections between the Main Line, Spur, and Sammamish River Trail
 - Interest in potential excursion rail service
 - Most rural and passes through agricultural valley with numerous wineries
- Wilburton 1-90 to 108th Ave NE (Cross Kirkland Corridor)
 - Most urban and commercial, major redevelopments
 - Major bridge structures needed
 - Sound Transit ownership and East Link Light Rail
- Lakefront Renton to I-90
 - Most residential segment
 - Opportunity to connect to Cedar River Trail and Lake to Sound Trail through Renton
- Preferred Trail Alignment On-Railbed with few exceptions:
 - Wetland avoidance
 - Alignment coordination with ST light rail or PSE project

EASTSIDE RAIL CORRIDOR SEGMENTS



Moving into Implementation

By June 2017

- Rail Removal from Kirkland to Renton
- Installation of Interim Trail like Cross Kirkland Corridor
- Installation of interim trail decking and rails on all trestles
- Possible acquisition of BNSF property alongside Coulon Park for trail extension

By 2020

- Retrofit Wilburton Trestle with Trail as part of first Master Plan trail construction segment
- WSDOT constructs Wilburton I-405 Bridge
- WSDOT constructs trail section from Coal Creek to Ripley
- Install trail on I-90 Trestle
- Construction of May Creek Gateway (trail parking and amenities)

By 2023

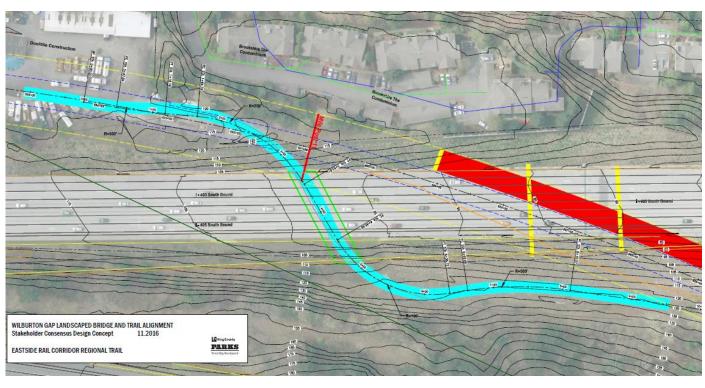
 Sound Transit constructs interim trail from NE 8th to SR 520



Wilburton Segment Design: 2017-2019

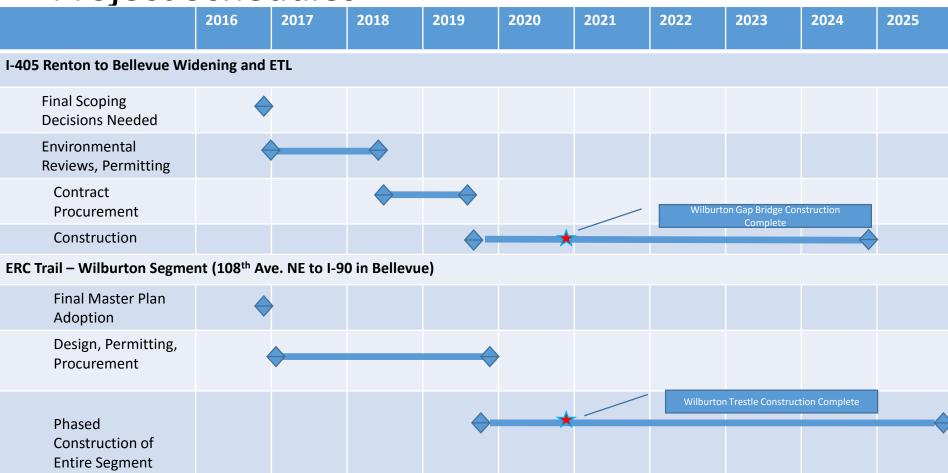


WSDOT: Wilburton Gap Bike/Ped Bridge and ERC Trail south of I-90





Project Schedules



Next Steps

- Continue coordination with WSDOT on design criteria for I-405 bridge and trail in ERC
- Master Plan Approval at King County Council
- Design phase community/stakeholder engagement in 2017
 - Rail Removal and Interim Trail
 - Wilburton Segment Design
 - Wilburton Gap Bike/Ped Bridge
 - WSDOT Trail Replacement in ERC Lakefront Segment
 - Lakefront & Valley Segment: Trestles, Gateways, Crossings & Connections

Questions?

Erica Jacobs

Project Manager erica.jacobs@kingcounty.gov (206) 477-5539





Your Big Backyard

Discussion: King County

Facilitated by:
Roger Millar, P.E., AICP
Secretary of Transportation

Public Comment

Facilitated by:
Anne Broache
I-405/SR 167 Program Communications

Wrap Up

Roger Millar, P.E., AICP Secretary of Transportation